# PRODUCT SUBMITTAL SPEC SHEET

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**Product Category:** Structural Metal Stud Framing: Specification Section 05 40 00
**Available Coatings:** G60 (standard); or G90 **Yield Strength:** 50 ksi
**Product Name:** 6TF16 **AISI Nomenclature:** 600T150-54
**Product Description:** 6 inch 16 gauge track member with 1-1/2 inch flanges

### Material and Shape Property Notes:

Thickness: Design: 0.0566" ● Minimum: 0.0538" ● Designation: 54 mil ● Equivalent Gauge: 16
Flange width: 1-1/2" ● Web Depth: 6"

## SECTION PROPERTIES

### Gross Section Properties:

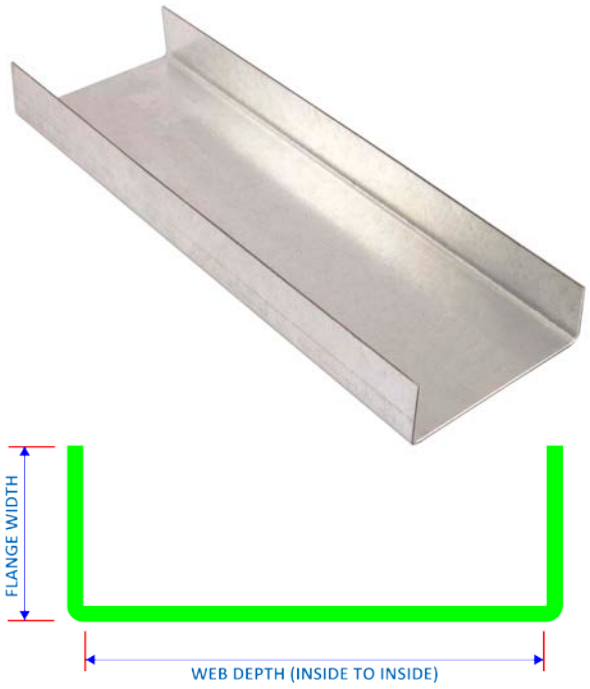
Cross Section Area (**A**): 0.5087 $in^2$
Member Weight: 1.7296 pounds per foot
Moment of Inertia, strong axis ($I_x$): 2.6113 $in^4$
Radius of Gyration, strong axis ($R_x$): 2.2656 in.
Moment of Inertia, weak axis ($I_y$): 0.0908 $in^4$
Radius of Gyration, weak axis ($R_y$): 0.4225 in.

### Effective Section Properties:[1]

Effective Section Modulus ($S_{x\ eff}$): 0.6100 $in^3$
Allowable Bending Moment ($M_a$): 18.2640 inch-kips
Gross Allowable Shear ($V_a$): 0.0027 kips

### Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 0.5432 $in^4$
Warping Constant ($C_w$): 0.6199 $in^6$
Polar Radius of Gyration ($R_o$): 2.4038 in
Distance from shear center ($X_o$): -0.6831 in
Beta (β): 0.9192




## CODES & STANDARDS

***Super Stud products comply with the applicable provisions of the following:***

International Building Code (IBC) 2006 - 2015
Sheet Steel: ASTM A1003 & ASTM A653
Galvanized Coating: ASTM A653
Members & Tolerances: ASTM C955
Meets ASTM C1007 when installed properly in structure
3rd Party Certification: Manufacturing verified & inspected by Home Innovation Research Labs, Inc.

[1] Where "NC" appears, the effective properties have not been calculated, due to limits in the American Iron and Steel Institute (AISI) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100).

## The Super Stud Building Products Family of Companies